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SEQUENCE LISTING

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<120> CD8 AS AN INHIBITOR OF THE CELLULAR IMMUNE SYSTEM

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<140> US 09/560,494

<141> 2000-04-28

<150> PCT/GB98/03235

<151> 1998-10-28

<150> GB 9722779.7

<151> 1997-10-28

<160> 28

<170> PatentIn version 3.1

<210> 1

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 1

gactgagtcg cggccgctgc caccatggcc ttaccagtga ccgccttg

48

<210> 2

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

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tattcgactg gataccttata cgtatctcgc cgaaaggctg gg

42

<210> 3

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 3

ggaattccat atgagccagt tccgggtgtc gccgctggat cg

42

<210> 4

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

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cgcggatccc tatgcgcccc ccgctggccg gctcgcctct gggcgcaggg acag

54

<210> 5

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 5

caccgcgaat tcggatccta agcgggtcta caagcttcgg gcttcgctgg caggaagacc 60

<210> 6

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 6

caccgcgaat tcggatccta agcgggtcta caagcttcg gcgctcgtgg gggcttcgc 59

<210> 7

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 7

caccgcgaat tcggatccta agcgggtcta caagcttcgg gcttcgctgg caggaagacc 60

<210> 8

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 8

gtggcaagct tggatcctat ggcgtcgtgg tgggcttcgc tg 42

<210> 9
 <211> 42
 <212> DNA
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<220>
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<400> 9
 ggaattccat atgagtcaat ttcgtgtatc accgctggat cg 42

<210> 10
 <211> 35
 <212> DNA
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<220>
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<400> 10
 acatacccat gggctctcac tccatgaggt atttc 35

<210> 11
 <211> 43
 <212> DNA
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<220>
 <223> Synthetic DNA primer

<400> 11
 acatacaagc ttacggctcc catcttaagg tgaggggctt ggg 43

<210> 12
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A2 Pol-restricted CTL line specific peptide

<400> 12
 Ile Leu Lys Glu Pro Val His Gly Val
 1 5

<210> 13
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A2 Pol-restricted CTL line specific peptide

<400> 13

Ser Leu Tyr Asn Thr Val Ala Thr Leu
 1 5

<210> 14
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A2 Pol-restricted CTL line specific peptide

<400> 14
 Val Ile Tyr Gln Tyr Met Asp Asp Leu
 1 5

<210> 15
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA primer

<400> 15
 ctgtccaacc cgacgtcggg cagctcgtgg ctctccagc cg 42

<210> 16
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA primer

<400> 16
 cggtctggaag agccacgagc tgcccgcgct cgggttggaac ag 42

<210> 17
 <211> 99
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA primer

<400> 17
 gggggaagct taatgccatt cgattttctg agcttcaaaa atatcggttca gaccaccacc 60
 ggatcctggc gtcgtggtgg gcttcgctgg caggaagac 99

<210> 18
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>

<223> CD8 alpha polypeptide

<400> 18

Gly Ser Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
1 5 10 15

Trp His

<210> 19

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA primer

<400> 19

gaggaggagc atatgaaacc acaagcacct gaactacgaa tctttccaaa gaaaatggac 60
gcc 63

<210> 20

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic DNA primer

<400> 20

ggggaggggaa gcttacttgg tagtagtaga gttcac 36

<210> 21

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-A2-flu

<400> 21

Gly Ile Leu Gly Phe Val Phe Thr Leu
1 5

<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide epitope

<400> 22

Lys Ala Val Tyr Asn Phe Ala Thr Cys
1 5

<210> 23
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic DNA construct encoding part of the
 extracellular domain of human CD8 alpha

<221> CDS
 <222> (1)...(366)

<400> 23
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 Met Ser Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly
 1 5 10 15

gag aca gtg gag ctg aag tgc cag gtg ctg ctg tcc aac ccg acg tcg 96
 Glu Thr Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser
 20 25 30

ggc tgc tcg tgg ctc ttc cag ccg cgc ggc gcc gcc gcc agt ccc acc 144
 Gly Cys Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr
 35 40 45

ttc ctc cta tac ctc tcc caa aac aag ccc aag gcg gcc gag ggg ctg 192
 Phe Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu
 50 55 60

gac acc cag cgg ttc tcg ggc aag agg ttg ggg gac acc ttc gtc ctc 240
 Asp Thr Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu
 65 70 75 80

acc ctg agc gac ttc cgc cga gag aac gag ggc tac tat ttc tgc tcg 288
 Thr Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser
 85 90 95

gcc ctg agc aac tcc atc atg tac ttc agc cac ttc gtg ccg gtc ttc 336
 Ala Leu Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe
 100 105 110

ctg cca gcg aag ccc acc acg acg cca tag 366
 Leu Pro Ala Lys Pro Thr Thr Pro *
 115 120

<210> 24
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> an amino acid construct encoding part of the
 extracellular domain of human CD8 alpha

<400> 24

Met Ser Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly
 1 5 10 15
 Glu Thr Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser
 20 25 30
 Gly Cys Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr
 35 40 45
 Phe Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu
 50 55 60
 Asp Thr Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu
 65 70 75 80
 Thr Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser
 85 90 95
 Ala Leu Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe
 100 105 110
 Leu Pro Ala Lys Pro Thr Thr Thr Pro
 115 120

<210> 25
 <211> 400
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> a synthetic DNA construct encoding part of the
 extracellular domain of murine CD8 alpha

<221> CDS
 <222> (4)...(396)

<400> 25
 cat atg aaa cca caa gca cct gaa cta cga atc ttt cca aag aaa atg 48
 Met Lys Pro Gln Ala Pro Glu Leu Arg Ile Phe Pro Lys Lys Met
 1 5 10 15
 gac gcc gaa ctt ggt cag aag gtg gac ctg gta tgt gaa gtg ttg ggg 96
 Asp Ala Glu Leu Gly Gln Lys Val Asp Leu Val Cys Glu Val Leu Gly
 20 25 30
 tcc gtt tcg caa gga tgc tct tgg ctc ttc cag aac tcc agc tcc aaa 144
 Ser Val Ser Gln Gly Cys Ser Trp Leu Phe Gln Asn Ser Ser Ser Lys
 35 40 45
 ctc ccc cag ccc acc ttc gtt gtc tat atg gct tca tcc cac aac aag 192
 Leu Pro Gln Pro Thr Phe Val Val Tyr Met Ala Ser Ser His Asn Lys
 50 55 60
 ata acg tgg gac gag aag ctg aat tcg tcg aaa ctg ttt tct gcc atg 240
 Ile Thr Trp Asp Glu Lys Leu Asn Ser Ser Lys Leu Phe Ser Ala Met
 65 70 75
 agg gac acg aat aat aag tac gtt ctc acc ctg aac aag ttc agc aag 288
 Arg Asp Thr Asn Asn Lys Tyr Val Leu Thr Leu Asn Lys Phe Ser Lys
 80 85 90 95
 gaa aac gaa ggc tac tat ttc tgc tca gtc atc agc aac tcg gtg atg 336
 Glu Asn Glu Gly Tyr Tyr Phe Cys Ser Val Ile Ser Asn Ser Val Met

100 105 110
 tac ttc agt tct gtc gtg cca gtc ctt cag aaa gtg aac tct act act 384
 Tyr Phe Ser Ser Val Val Pro Val Leu Gln Lys Val Asn Ser Thr Thr
 115 120 125
 acc aag cca taa gctt 400
 Thr Lys Pro *
 130

<210> 26
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> an amino acid construct encoding part of the
 extracellular domain of murine CD8 alpha

<400> 26
 Met Lys Pro Gln Ala Pro Glu Leu Arg Ile Phe Pro Lys Lys Met Asp
 1 5 10 15
 Ala Glu Leu Gly Gln Lys Val Asp Leu Val Cys Glu Val Leu Gly Ser
 20 25 30
 Val Ser Gln Gly Cys Ser Trp Leu Phe Gln Asn Ser Ser Ser Lys Leu
 35 40 45
 Pro Gln Pro Thr Phe Val Val Tyr Met Ala Ser Ser His Asn Lys Ile
 50 55 60
 Thr Trp Asp Glu Lys Leu Asn Ser Ser Lys Leu Phe Ser Ala Met Arg
 65 70 75 80
 Asp Thr Asn Asn Lys Tyr Val Leu Thr Leu Asn Lys Phe Ser Lys Glu
 85 90 95
 Asn Glu Gly Tyr Tyr Phe Cys Ser Val Ile Ser Asn Ser Val Met Tyr
 100 105 110
 Phe Ser Ser Val Val Pro Val Leu Gln Lys Val Asn Ser Thr Thr Thr
 115 120 125
 Lys Pro
 130

<210> 27
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CD8 protein

<400> 27
 Leu Leu Leu His Ala Ala Arg Pro
 1 5

<210> 28
 <211> 8
 <212> PRT

<213> Artificial Sequence

<220>

<223> CD8 protein

Q1 <400> 28

Ala Pro Arg Pro Pro Thr Pro Ala

1

5

Concl